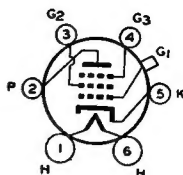


# RCA-6D6

## TRIPLE-GRID SUPER-CONTROL AMPLIFIER



The 6D6 is a triple-grid super-control amplifier tube recommended for service in the radio-frequency and intermediate-frequency stages of radio receivers designed for its characteristics. The ability of this tube to handle the usual signal voltages without cross-modulation and modulation-distortion makes it adaptable to the r-f and i-f stages of receivers employing automatic volume control. The 6D6 is constructed with an internal shield connected to the cathode within the tube.

### CHARACTERISTICS

HEATER VOLTAGE (A. C. or D. C.).....	6.3	Volts
HEATER CURRENT .....	0.3	Ampere
PLATE VOLTAGE .....	100 250 max.	Volts
SCREEN VOLTAGE .....	100 100 max.	Volts
GRID VOLTAGE (Minimum).....	-3 -3	Volts
SUPPRESSOR .....	Connected to cathode at socket	
PLATE CURRENT .....	8 8.2	Milliamperes
SCREEN CURRENT .....	2.2 2.0	Milliamperes
PLATE RESISTANCE .....	0.25 0.8	Megohm
AMPLIFICATION FACTOR .....	375 1280	
TRANSCONDUCTANCE .....	1500 1600	Micromhos
TRANSCONDUCTANCE (At -50 volts bias)....	2 2	Micromhos
GRID-PLATE CAPACITANCE (With shield-can).....	0.007 max.	$\mu\text{f}$
INPUT CAPACITANCE .....	4.7	$\mu\text{f}$
OUTPUT CAPACITANCE .....	6.5	$\mu\text{f}$
BULB .....		ST-12
CAP .....		Small Metal
BASE .....		Small 6-Pin

### INSTALLATION AND APPLICATION

The base pins of the 6D6 fit the standard six-contact socket which may be installed to hold the tube in any position.

For heater operation and cathode connection, refer to INSTALLATION for type 6A8.

For control-grid bias, screen voltage, and suppressor connection, refer to INSTALLATION on type 6K7. Shielding requirements are similar to those for type 6C6.

Refer to APPLICATION on type 6K7. A plate family of curves is given under type 58.